

Product datasheet for **RG201897**

CENPQ (NM_018132) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	CENPQ
Synonyms:	C6orf139; CENP-Q
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG201897 representing NM_018132
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTGGTAAAGCAAATGCTTCCAAGAAAAACGCTCAACAGTTAAAAAGAAATCCAAAGAGAAAAAGG
ATAATGAGGAAGTTGTGTTGTGTCAGAGAATAAGGTTAGAAACACAGTGAAAAAATAAAATCATCTGAA
AGATCTGTCTTCTGAAGGACAAACAAAGCACACTAACCTAAACACGGAAAGACAGCAGCCAGCAAGAGA
AAAACCTGGCAACCTCTGTCAAAGAGTACCAGAGACCATTTGCAAACTATGATGGAATCAGTAATAATGA
CAATTTTGAGTAACAGTATTAAGAAAAAGAAAGAAATACAATACCATCTCAACTTCCTGAAGAAAAAGATT
GCTACAACAGTGTGAACTCTGAAAGTCCCTCCAAAAAGATGGAAGTTTAACTAATGTATCAAGTCTA
CTGAATATGGAAGGGCACGAGACAAAGCTAATGAAGAAGGTCTGGCATTACTACAGGAAGAAATAGATA
AAATGGTAGAGACCACAGAGTTAATGACTGGGAATATTCAGAGCCTAAAGAACAAAATTCAGATTCTGGC
AAGTGAGGTGGAAGAAGAAGAGGAGAGAGTAAACAGATGCATCAAATAAATAGTAGTGAGTACTCTCT
CTTCCGGAACCTTTCTCAGAAAACCTCTCAAAGCACCACACTTCAGAAAGAAATTTTGCGCTAATTCCAA
ACCAGAATGCTCTTCTAAGGACTTGGATATTCTTCATAATTCATCACAGATGAAGAGCATGTCAACCTT
CATTGAAGAAGCCTATAAGAACTGGATGCATCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



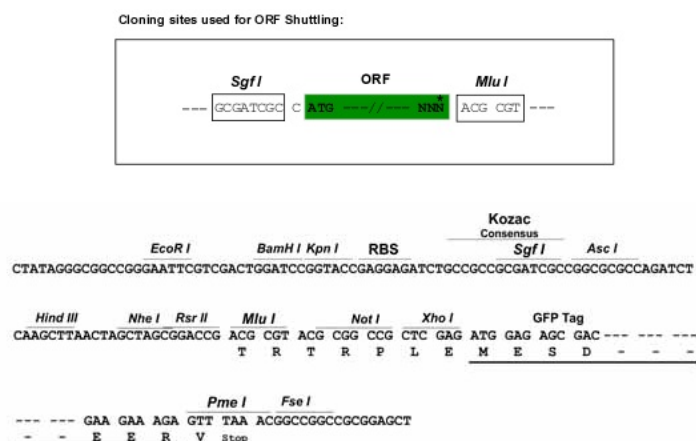
Protein Sequence: >RG201897 representing NM_018132
Red=Cloning site Green=Tags(s)

MSGKANASKNAQQLKRNPKRKDDNEEVVLSENKVRNTVKKNKHLKDLSSGQTKHTNLKHGKTAASKR
KTWQPLSKSTRDHLQTMMSVIMTILSNSIKEEEIIQYHLNFKKRLQQCETLKVPKKMEDLTNVSSL
LNMERARDKANEEGLALLQEEIDKMVETTELMTGNIQSLKNKIQILASEVEEEERVKQMHQINSSGVL
LPELSOKTLKAPTLOKEILALIPNONALLKDLDILHNSOMKSMSTFIEEAYKKLDAS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018132

ORF Size: 804 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_018132.4](#)

RefSeq Size: 1753 bp

RefSeq ORF: 807 bp

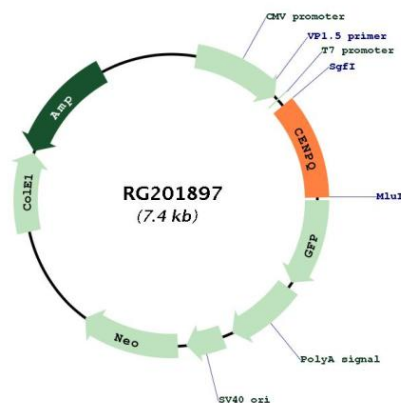
Locus ID: 55166

UniProt ID: [Q7L2Z9](#)

Cytogenetics: 6p12.3

Gene Summary: CENPQ is a subunit of a CENPH (MIM 605607)-CENPI (MIM 300065)-associated centromeric complex that targets CENPA (MIM 117139) to centromeres and is required for proper kinetochore function and mitotic progression (Okada et al., 2006 [PubMed 16622420]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG201897